BDCP Steering Committee	НА	NDOUT #4			
Revised Draft	Operational Parameters for	or Option 4	{	Deleted: Preliminary	
July <u>18,</u> 2007			{	Deleted: 13	
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Isolated Conveyance Facility				Deleted: Master	$\overline{}$

Preliminary Draft operational parameters for BDCP Option 4^1 – Below Normal Water Year

Option 4. All SWP and CVP diversions would occur at a new facility on the Sacramento River with a state-of-the-art positive barrier fish screen and water would be conveyed via a peripheral aqueduct with the SWP/CVP facilities fully isolated from the Delta. Opportunities for habitat restoration and enhancement under Option 4 could be applied Delta-wide. Fluctuating salinity conditions could be implemented with the greatest flexibility and extent of the four options.

Parameter	R	ange	Rationale		
Operational	A range of valu	es for a given	The rationales generally reflect the intended	!	
condition and	operational condition intended		result of the parameter		
seasonal time	•		A Y		
period used as	or interpretatio	ns of available			
a model input	data				
and/or output					
Delta Salinity	_	Do not manage	Evaluation parameter to assess the range of	Deleted: Do not manage specifically to	
Standards	Manage to D-	specifically to	variable salinity conditions that could occur	meet water quality standards – variable salinity	
	<u>1641</u>	meet water	and assess changes in aquatic habitat		
	agricultural	quality	conditions as well as impacts on other Delta		
	(e.g., Jersey	standards –	uses		
	Point)	variable salinity			
	<u>standards</u>				
Sacramento					
River at Rio					
Vista					
Sept-Oct	4,000 cfs	<u>5,000</u> cfs	Adult Chinook salmon attraction and	Deleted: 3,000	
			migration flows – the range is based on	Deleted: 3,000	
Nov-Dec	4,000 cfs	<u>5,000</u> cfs	Juvenile salmon and steelhead	Deleted: Rio Vista flows from	
			migration/survival, pre-spawning migration	CALSIM for below normal and above	
			by delta smelt, splittail, and others - the range	normal water years	
			is based on	Deleted: 4,000	
				Deleted: 4,500	
			· ·	Deleted: Rio Vista flows from	

CALSIM for below normal and above

normal water years

¹ These operational parameters have been developed by the SAIC team, which is providing support to the BDCP Steering Committee. They are intended to enable the SAIC team to undertake a coarse modeling of the different conservation strategy options now undergoing a comparative evaluation to assist the Steering Committee in narrowing down the options for purposes of furthering the planning process. They are not designed to, nor intended to, represent proposed operational parameters for the system by either the SAIC team or any entity on the Steering Committee, nor should they be misconstrued as such.

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Jan-Jun	5,000 cfs	9,000 cfs	Juvenile salmon and steelhead migration/survival, pre-spawning migration by delta smelt, splittail, and others - the rang is based on Rio Vista flows from CALSIM for below normal and above normal water years	e Deleted: Master
Jul-Aug	2,000 cfs	4,000 cfs	Steelhead and salmon rearing within the	Deleted: 3,000
	,		mainstem river; support resident fish habitat the range is based on.	Deleted: Rio Vista flows from CALSIM for below normal and above normal water years
San Joaquin River flow at Vernalis				normal water years
May	D-1641 flow	D-1641 flow	The available relationships show a positive	
	requirements	requirements	response with increasing spring flows; flows for salmon migration; nutrient transport to Delta; juvenile splittail rearing and dispersal	
Jul-Sep	.	.	Summer baseflows for resident fish, nutrient	Deleted: Jun
	No criterion	No criterion	transport to Delta	Deleted: Aug
Oct	.▼		Attraction flows and improved water quality	Deleted: D-1641 flow requirements
	<u>1,400 cfs</u>	2,000 cfs	(DO and temperature) for adult salmon migration — equivalent to D-1641	Deleted: D-1641 flow requirements
Nov-Jan	D-1641 water		Salmon fry rearing and dispersal, nutrient	Deleted: Sep-
	quality	1,500 cfs	transport to Delta, Splittail spawning and	Deleted: D-1641 flow requirements
	requirements		larval rearing and dispersal	Deleted: D-1641 flow requirements
Feb-Apr and	D-1641 flow	D-1641 flow	D-1641 X2 contribution results in a range of	Deleted: Mar
<u>Jun</u>	requirements	requirements of	San Joaquin River flows	Deleted: flow
	of approximately 1,420 cfs	approximately 2,280 cfs	\	Deleted: D-1641 flow requirements
X2		-		
Feb-June	74 km	66 km	The range of X ₂ locations during the late	Deleted: D-1641 X ₂ locations
(assumes		*	winter-spring is intended to reflect (1) an X2	
improved			location at Chipps Island (74 km) and (2) an	Deleted: 63-69 km (range)
habitat in			expansion of low-salinity habitat further	Deleted: the current regulatory
central Delta)			downstream within Suisun Bay (66 km)	requirements
Jul-Jan	No criterion	No criterion	Evaluation parameter	_
Total Delta Outflow	No criterion	No criterion	Evaluation parameter	
Hydraulic Residence	No criterion	No criterion	Evaluation parameter	

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Time in Selected Delta Channels			[De	eleted: Master
DCC				
Feb-Jun	Closed	Closed	Reduce movement of juvenile salmon and steelhead into the interior Delta; improve juvenile salmon survival by reducing vulnerability to in-Delta diversions,	
Jul-Jan	Closed	Closed	Open as needed for water quality enhancement within the central and southern Delta	
HORB –			,	
Year-round	Open	Open	Increase flows and flushing within the southern Delta to improve water quality	
OLI D'				
Old River Flows				
Year-round	No criterion	No criterion	Evaluation criteria	
Middle River Flows				
Year-round	No criterion	No criterion	Evaluation criteria	
QWEST	77	NY III		
Year-round	No criterion	No criterion	Evaluation criteria	
SWP/CVP Diversions				
Mar-May	No criterion Not to exceed 15,400 cfs	Model output not to exceed 6,000 cfs	The range in diversion rates reflects (1) the location of the point of diversion is upstream of the primary habitat of delta smelt and therefore the risk of entrainment is low; the positive barrier fish screen is expected to be effective in excluding juvenile salmon and other fish from the diversion, and (2) a number of fish species spawn upstream of the point of diversion during the spring and have planktonic eggs and larvae that could be vulnerable to entrainment, reduce the diversion of nutrients and food supply for the Delta during the key spring months	

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Jun-Feb	No criterion Not to exceed	No criterion	Evaluation parameter		Deleted: 7 Deleted: Master
	<u>15,400 cfs</u>				

Assumptions:

- •Water conveyance and south of Delta storage are assumed to not limit diversion operations—model evaluation parameter.
- •Upstream reservoir storage and releases will be made in accordance with current requirements to support salmon and steelhead habitat and maintain suitable water temperatures and compliance with existing agreements and regulatory requirements including FERC conditions and ESA requirements.
- •Option 4 assumes SWP and CVP pumping operations would occur exclusively from a state-of-the-art positive barrier fish screen located on the Sacramento River in the general vicinity of Hood and isolated water conveyance canal with an Intertie to both the SWP and CVP diversion facilities in the south Delta. The existing south Delta diversion facilities would not be used for water diversions from the Delta.